

FIG. 1 PRIOR ART

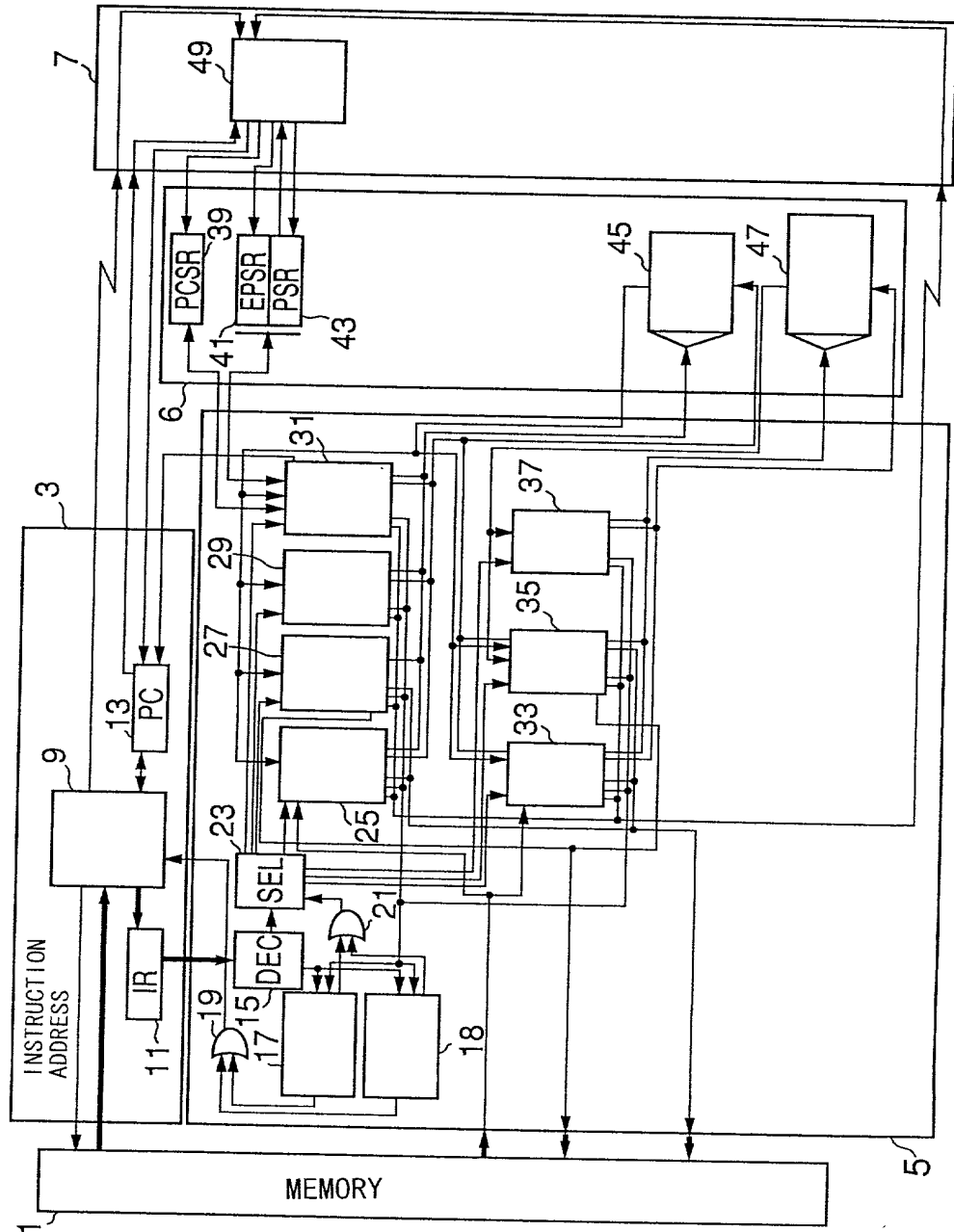


FIG. 2

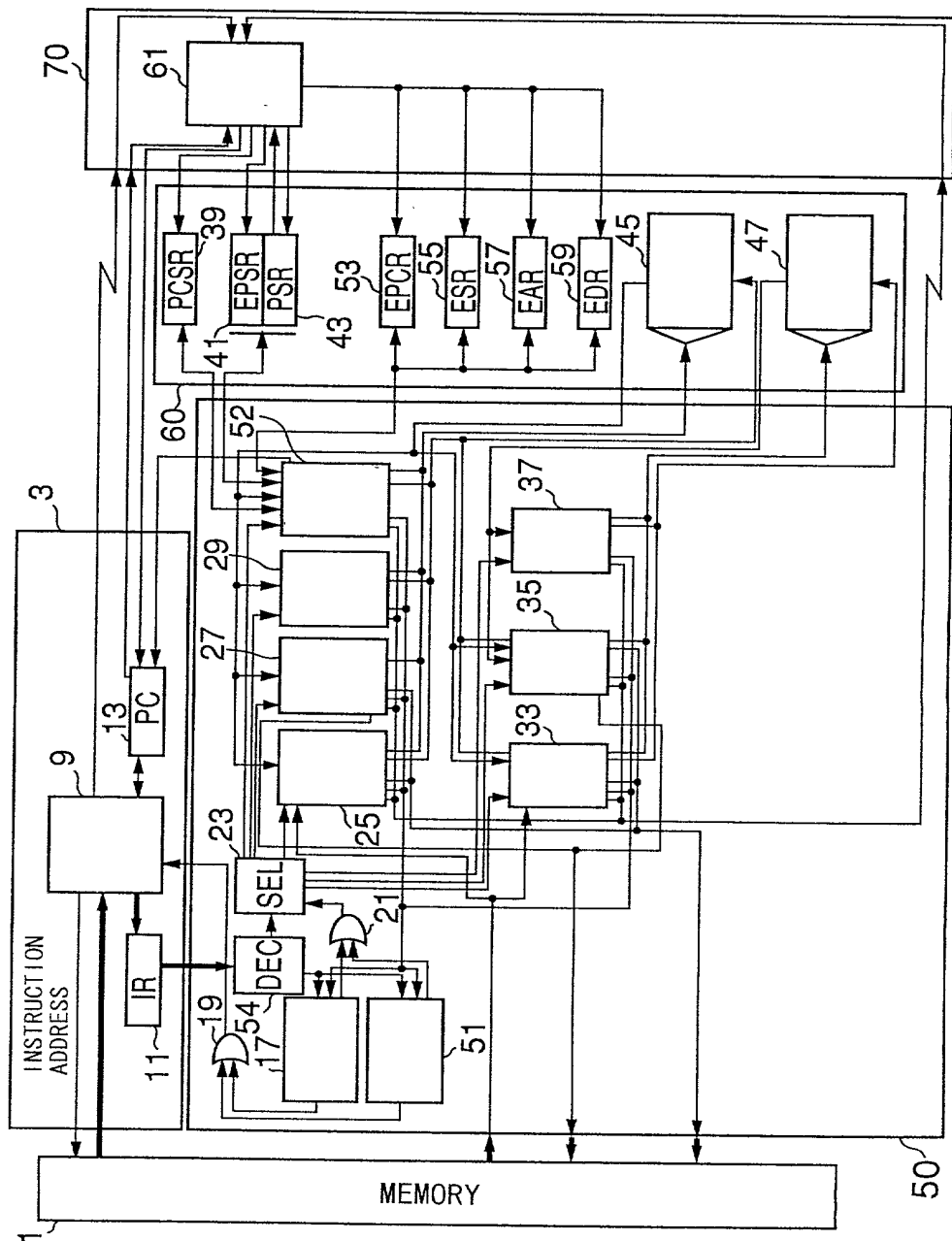


FIG.3

| INSTRUCTION<br>EXECUTION PART                                   | KIND OF INSTRUCTION                           | EPCR | ESR | EAR | EDR |
|-----------------------------------------------------------------|-----------------------------------------------|------|-----|-----|-----|
| LOAD INSTRUCTION<br>EXECUTION PART                              | LOAD INSTRUCTION                              | ○    | ○   | ○   | —   |
| STORE INSTRUCTION<br>EXECUTION PART                             | STORE INSTRUCTION                             | ○    | ○   | ○   | ○   |
| ARITHMETICAL<br>INSTRUCTION<br>EXECUTION PART                   | ARITHMETICAL<br>INSTRUCTION                   | ○    | ○   |     |     |
| FLOATING-POINT<br>LOAD INSTRUCTION<br>EXECUTION PART            | FLOATING-POINT<br>LOAD INSTRUCTION            | ○    | ○   | ○   | —   |
| FLOATING-POINT<br>STORE INSTRUCTION<br>EXECUTION PART           | FLOATING-POINT<br>STORE INSTRUCTION           | ○    | ○   | ○   | ○   |
| FLOATING-POINT<br>ARITHMETICAL<br>INSTRUCTION<br>EXECUTION PART | FLOATING-POINT<br>ARITHMETICAL<br>INSTRUCTION | ○    | ○   | —   | —   |
| OTHER INSTRUCTION<br>EXECUTION PART                             | OTHER INSTRUCTION                             | ○    | ○   | —   | —   |

FIG.4

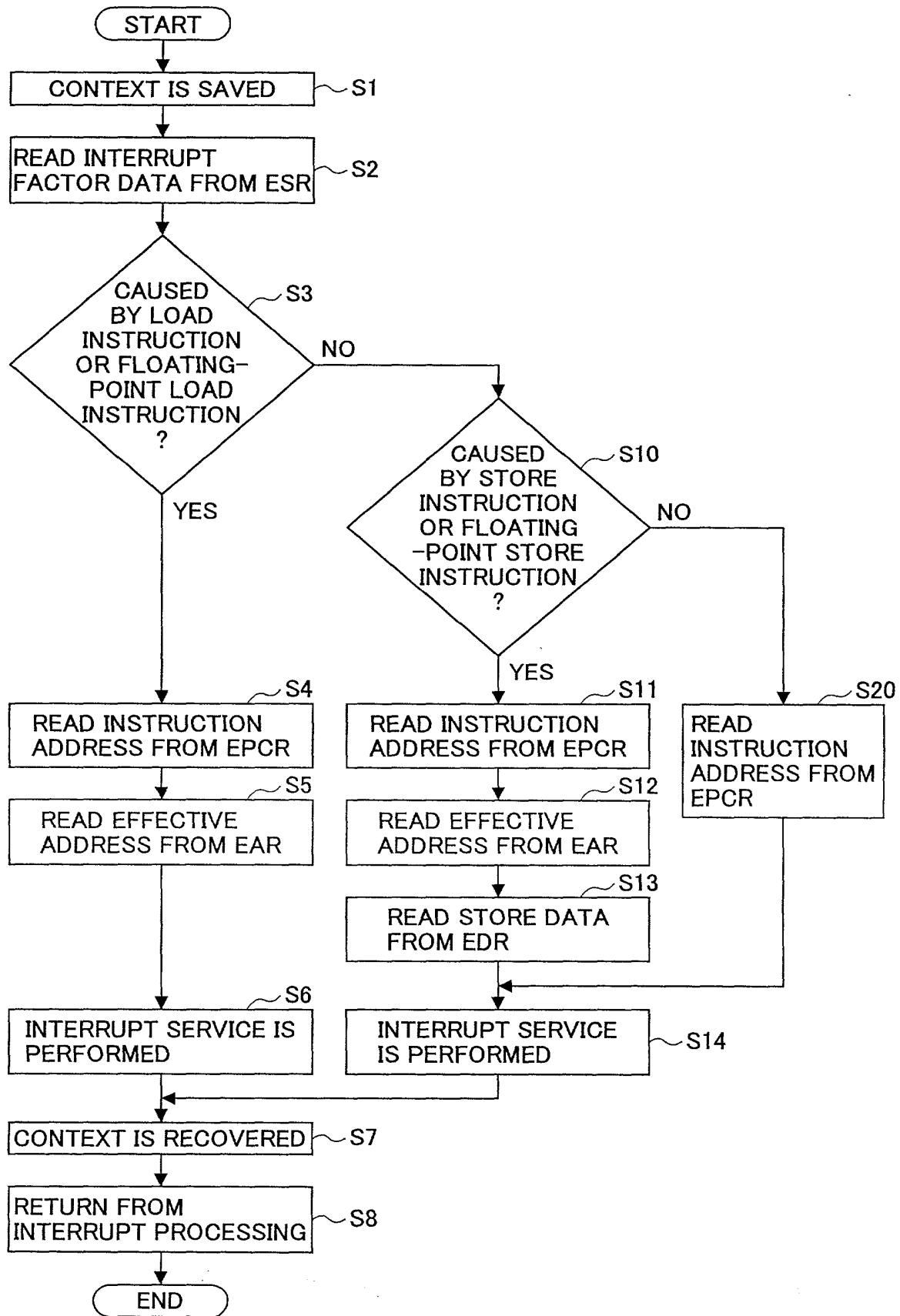


FIG. 5

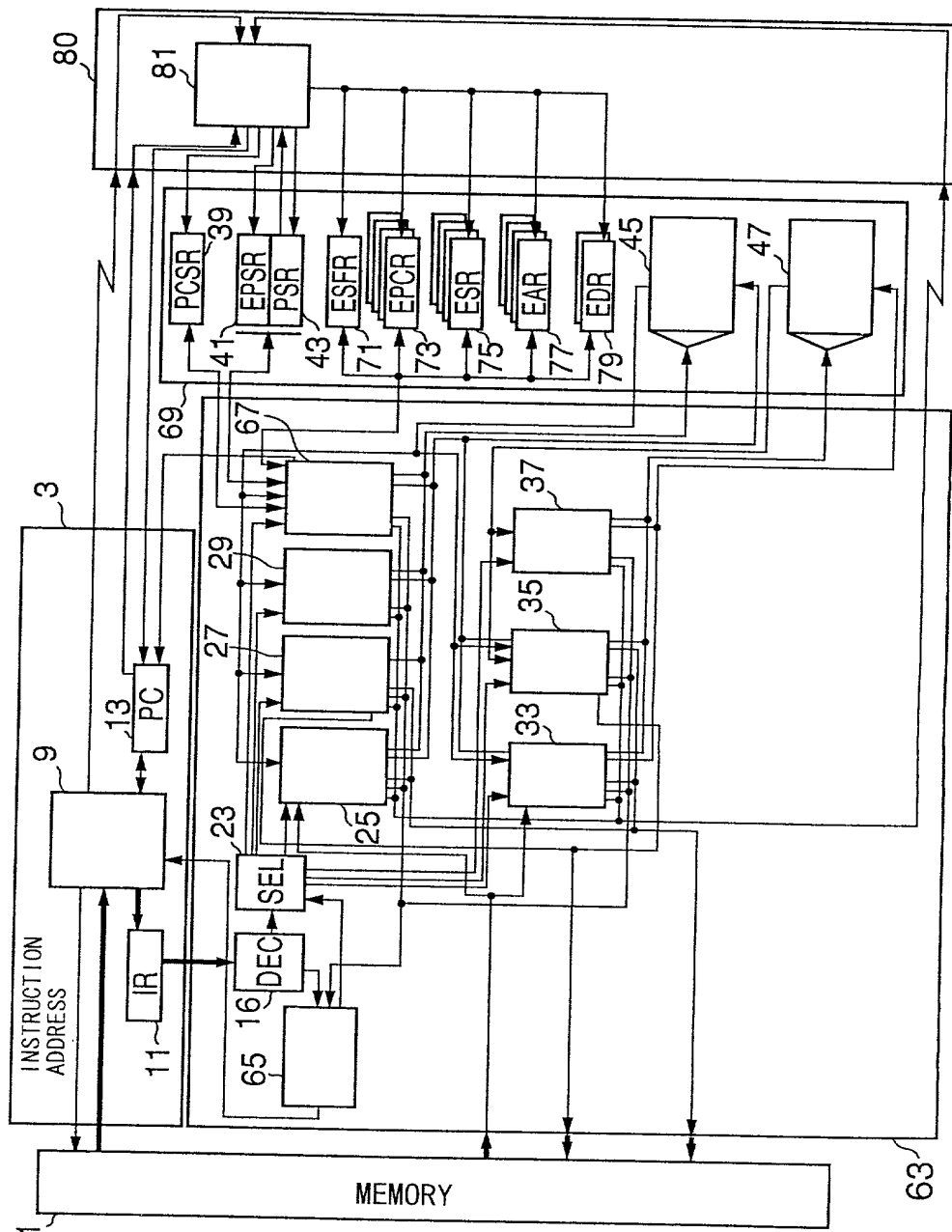


FIG. 6

|   | 6 th bit | 5 th bit | 4 th bit | Third bit | Second bit | First bit | 0 th bit |
|---|----------|----------|----------|-----------|------------|-----------|----------|
| — | ESR6     | ESR5     | ESR4     | ESR3      | ESR2       | ESR1      | ESR0     |

FIG. 7

| INSTRUCTION<br>EXECUTION PART                                   | KIND OF INSTRUCTION                           | EPCR0<br>ESR0 | EPCR1<br>ESR1 | EPCR2<br>ESR2 | EPCR3<br>ESR3<br>EAR3 | EPCR4<br>ESR4<br>EAR4 | EPCR5<br>ESR5<br>EAR5<br>EDR5 | EPCR6<br>ESR6<br>EAR6<br>EDR6 |
|-----------------------------------------------------------------|-----------------------------------------------|---------------|---------------|---------------|-----------------------|-----------------------|-------------------------------|-------------------------------|
| LOAD INSTRUCTION<br>EXECUTION PART                              | LOAD INSTRUCTION                              |               |               |               | O                     |                       |                               |                               |
| STORE INSTRUCTION<br>EXECUTION PART                             | STORE INSTRUCTION                             |               |               |               |                       |                       | O                             |                               |
| ARITHMETICAL<br>INSTRUCTION<br>EXECUTION PART                   | ARITHMETICAL<br>INSTRUCTION                   | —             | O             | —             | —                     | —                     | —                             | —                             |
| FLOATING-POINT<br>LOAD INSTRUCTION<br>EXECUTION PART            | FLOATING-POINT<br>LOAD INSTRUCTION            |               |               |               |                       | O                     |                               |                               |
| FLOATING-POINT<br>STORE INSTRUCTION<br>EXECUTION PART           | FLOATING-POINT<br>STORE INSTRUCTION           | —             | —             | —             | —                     | —                     | —                             | O                             |
| FLOATING-POINT<br>ARITHMETICAL<br>INSTRUCTION<br>EXECUTION PART | FLOATING-POINT<br>ARITHMETICAL<br>INSTRUCTION | —             | —             | O             | —                     | —                     | —                             | —                             |
| OTHER INSTRUCTION<br>EXECUTION PART                             | OTHER INSTRUCTION                             | O             |               |               |                       |                       |                               |                               |

# FIG.8

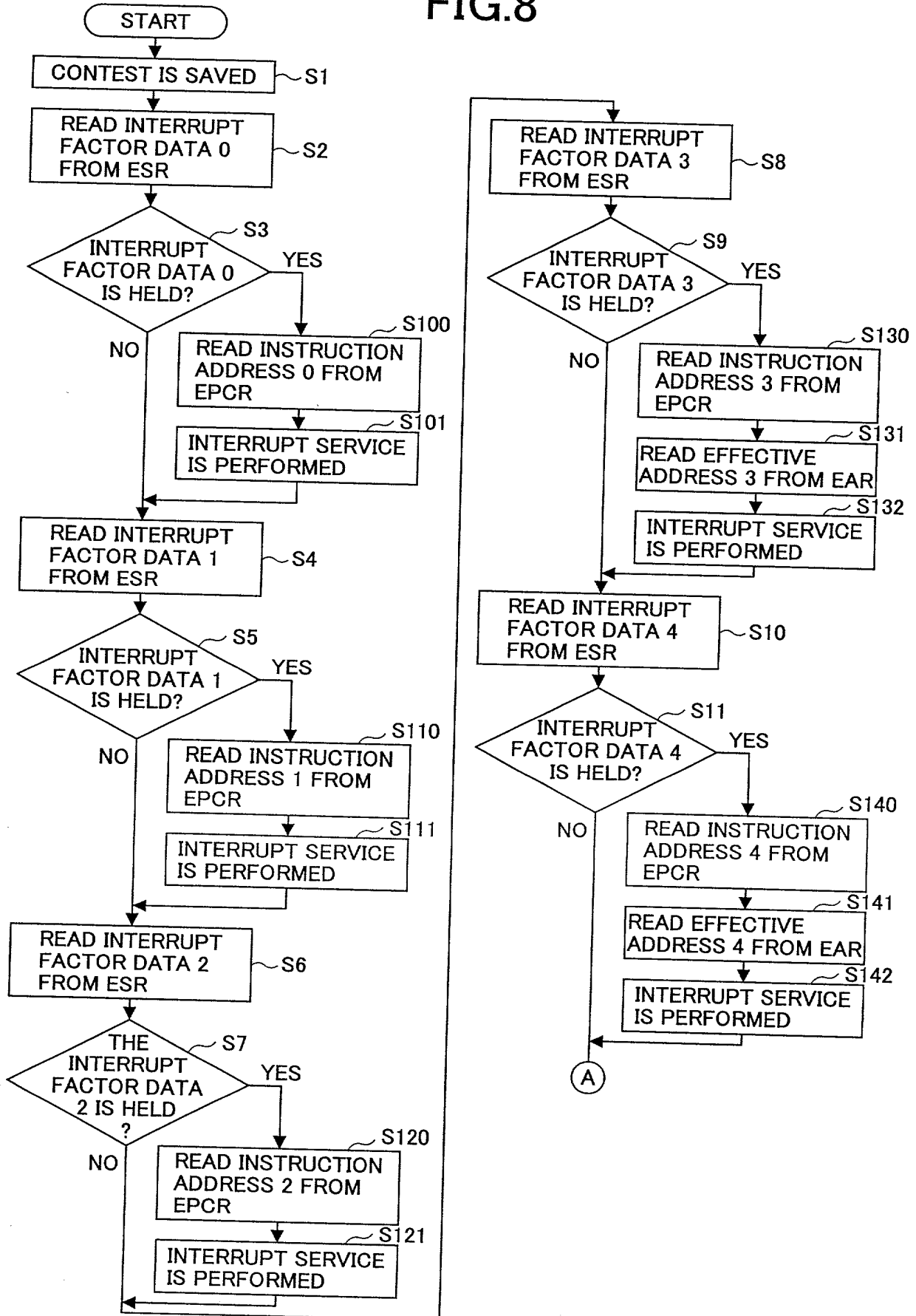
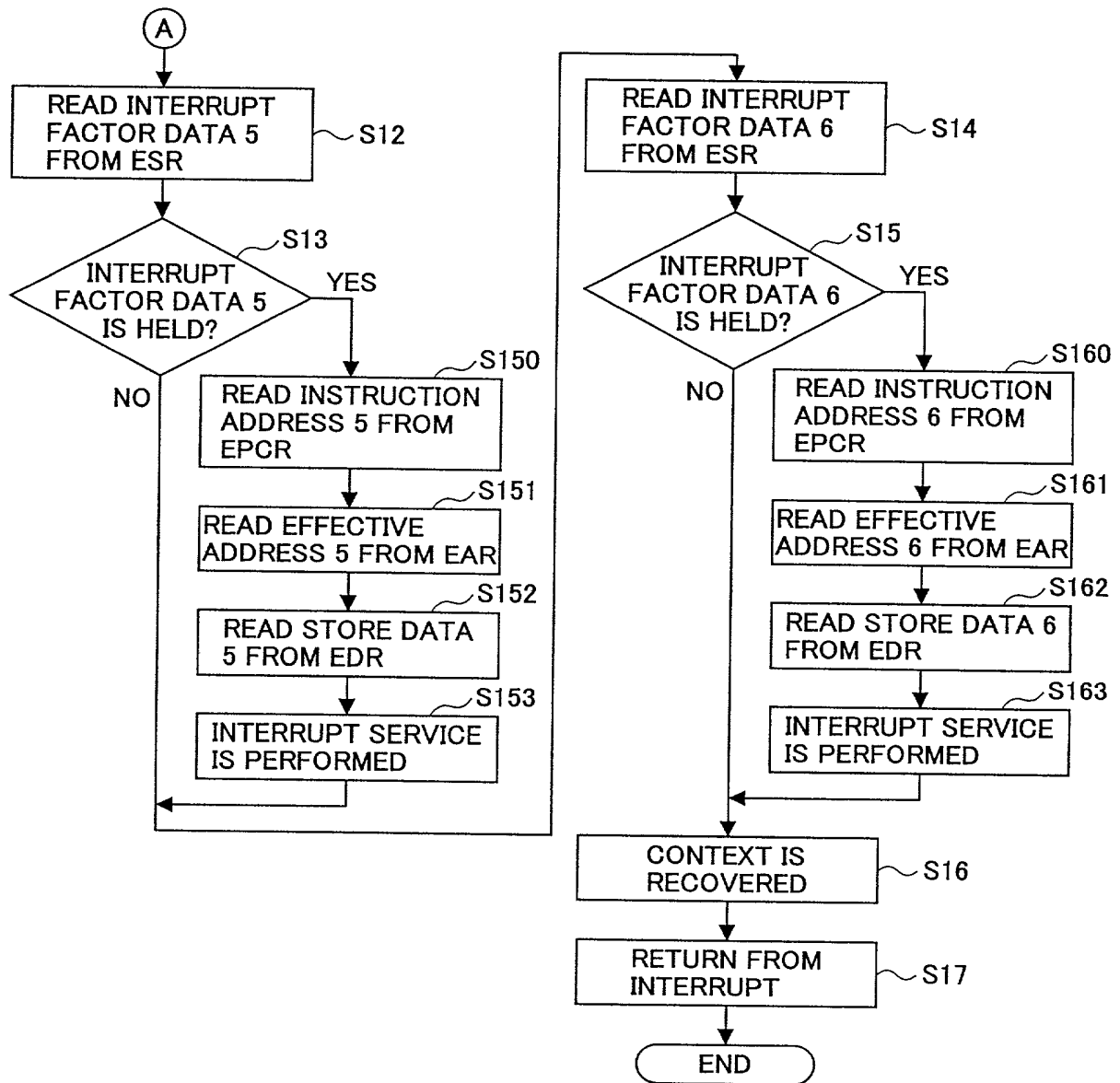




FIG.9



# FIG.10

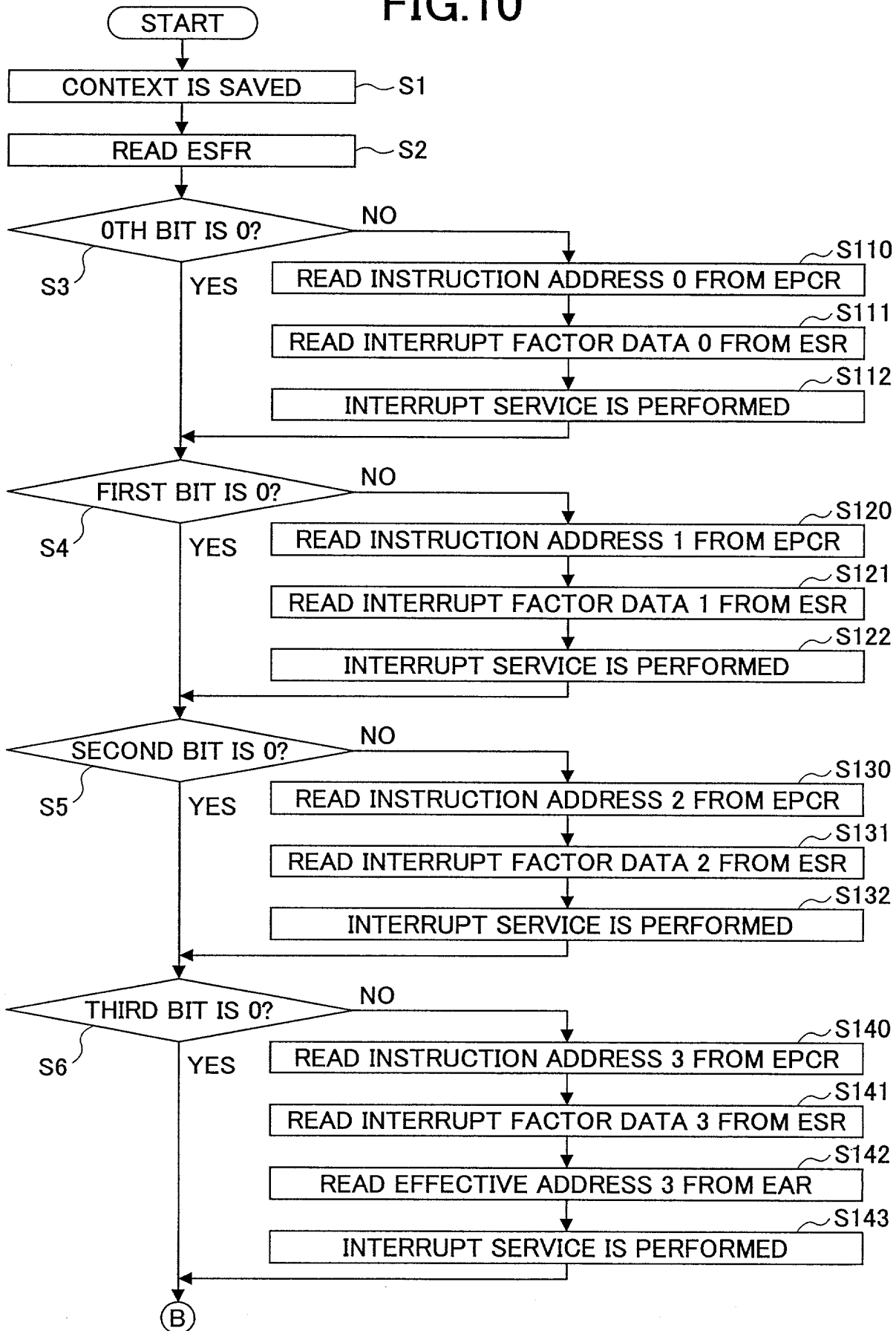


FIG.11

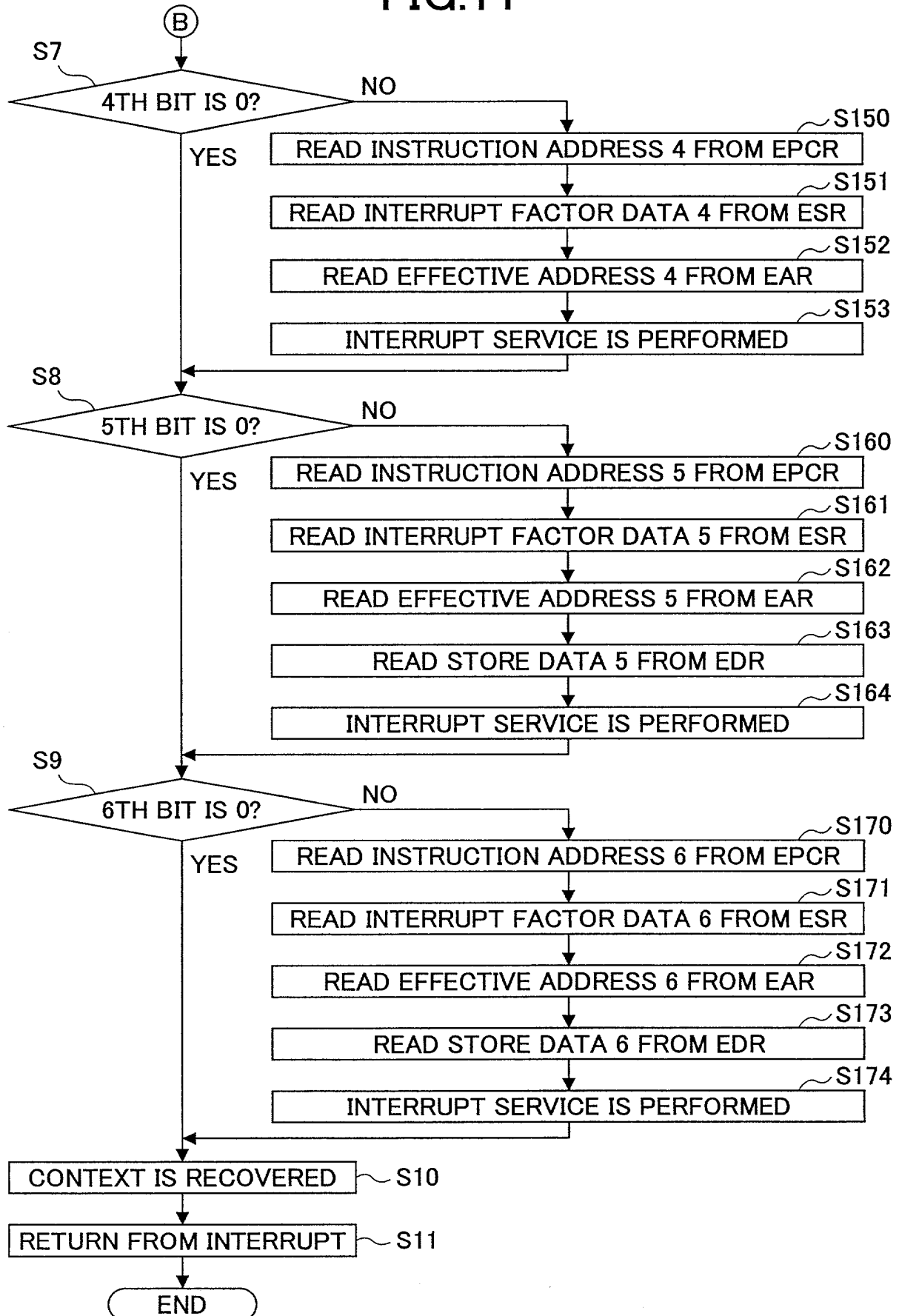




FIG. 13

